Brainstorming

- 1. Keep track of emails and passwords for each user
- 2. What recipes they save
- 3. Feed with different recipes
- 4. Ingredients in their grocery list
- 5. Occasions that are coming up

Table Ideas

- 1. <u>User</u> will have an email and password section (possibly linked to saved recipes) maybe linked to their occasions
- 2. Recipe instructions, references a user that has saved it,
- 3. Ingredients will have an id section and a text area
- 4. Grocery List reference ingredients reference user
- 5. Occasion will reference recipes reference user
- 6. <u>UserRecipes(saved recipes)</u> connect users and recipes to each other

Relationships

One-to-one

- Recipe to Ingredients Each specific recipe will only have one specific set of ingredients that apply to it and vice versa as well.
- User to Grocery List Each user will only have one grocery list and each grocery list can only have one user

One-to-many

 User to Occasion - Each user can have multiple occasions but each occasion will only belong to one user

Many-to-many

 User to Recipe - Each user can save many recipes, each recipe can be saved by many users

Columns

Each table has a unique id with serial type so that they can be easily distinguished from each other.

Users

Email - Because we want to store each user's email. VarChar(255) because it will possibly include special characters numbers and strings

Password - Because we want to store each user's password. VarChar(100) because it will possibly include special characters numbers and strings

Username - same reason as the two above

Profile_pic_url - varchar(500) added this to allow users to have profile pic varchar because the img will be a url.

Recipe

Instructions - This is a text section with instructions on how to make the food. Linked to ingredients_id - to get the ingredients needed for the food. Picture url - will be VARCHAR(500) to show the food you will make.

<u>SavedRecipes</u>

Linked to user_id - so the user can save recipes
Linked to recipe id - so the user can get the information about the recipe

<u>Ingredients</u>

List of ingredients is just a text field so that the list of ingredients and their quantities can all be entered in and stored.

Occasions

Linked to user_id - So the user can have multiple Occasions
Linked to recipe_id - So the user can save a recipe to that occasion
Title - title of the occasion

Grocery list

Connected to the user id and the recipe_id so that a specific user can add ingredients from within a specific recipe to their list.

Used integer types on both because the id's from the other tables will be integers.

Create Tables

```
CREATE TABLE users(
id SERIAL PRIMARY KEY,
email VARCHAR(255),
password VARCHAR(100),
username VARCHAR(100),
profile pic url VARCHAR(500)
);
CREATE TABLE ingredients(
id SERIAL PRIMARY KEY,
list ingredients TEXT
);
CREATE TABLE recipe(
id SERIAL PRIMARY KEY,
instructions TEXT,
ingredient_id INTEGER NOT NULL REFERENCES ingredients(id)
);
```

```
CREATE TABLE occasion(
id SERIAL PRIMARY KEY,
user id INTEGER NOT NULL REFERENCES users(id),
recipe id INTEGER NOT NULL REFERENCES recipe(id),
title VARCHAR(100)
);
CREATE TABLE grocerylist(
id SERIAL PRIMARY KEY,
user id INTEGER NOT NULL REFERENCES users(id),
recipe id INTEGER NOT NULL REFERENCES recipe(id)
);
CREATE TABLE saved recipes(
id SERIAL PRIMARY KEY,
user_id INTEGER NOT NULL REFERENCES users(id),
recipe id INTEGER NOT NULL REFERENCES recipe(id)
);
INSERT INTO users (email,password,username,profile pic url)
VALUES ('www.getwreked@gmail.com','password','yo','www.pic.ipg');
INSERT INTO ingredients(list ingredients)
VALUES ('1/4 cup water,2 and 1/4 cup sugar')
INSERT INTO recipe(ingredient id,instructions)
VALUES (1, 'always cook with some tomatoes on hand')
```